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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/715,349

11/14/2003

Jack M. Zoken

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09/18/2007

LUMEN INTELLECTUAL PROPERTY SERVICES, INC.
2345 YALE STREET, 2ND FLOOR
PALO ALTO, CA 94306

EXAMINER

BLOOM, NATHAN J

ART UNIT

PAPER NUMBER

2624

MAIL DATE

DELIVERY MODE

09/18/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/715,349	Applicant(s) ZOKEN ET AL.	
	Examiner Nathan Bloom	Art Unit 2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 August 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) 7, 12 and 15 is/are withdrawn from consideration.
- 5) ☒ Claim(s) 11, 13, 14 and 16-25 is/are allowed.
- 6) ☒ Claim(s) 1-9, 26, 29, 31-36 and 39 is/are rejected.
- 7) ☒ Claim(s) 10, 27, 28, 37 and 38 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
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| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input checked="" type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. <u>200708006</u> . |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____. | 6) <input type="checkbox"/> Other: _____. |

DETAILED ACTION

Response to Amendment/Interview

1. Applicant's request for reconsideration, during the attached interview, of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.
2. The previous final rejections of currently amended claims 26, 29-36, and 39 have been removed and new rejections/objections have been applied. See attached interview summary form for details.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-6 and 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson in view of Griffin (US 5265173) in further view of Bloedorn (US 2002/0152208).
Instant claim 1: (currently amended) A geocoding method comprising identifying from orthorectified imagery locations of entities associated with each side of a street segment; ordinally numbering the identified locations with respect to positions along each side of the street segment; *[As per rejection of instant claim 1 in the previous office action this has been disclosed by Anderson in view of Griffin]*

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determining street addresses associated with each side of the street segment; and associating the identified locations with the determined street addresses to produce geocoded street addresses for each side of the segment [1.]; *[As per rejection of instant claim 1 in the previous office action this has been disclosed by Anderson in view of Griffin]*

wherein associating the identified locations with the determined street addresses comprises matching, on each side of the street segment, the ordinal numbering of the identified locations with a natural order of the determined street addresses. *[As per rejection of instant claim 1 in the previous office action the ordinal numbering of locations and the determination of street addresses was taught by Anderson in view of Griffin, but Anderson and Griffin do not teach the association of these lists of data via the ordinal number and natural order of the data. However, Bloedorn in paragraphs 0006, 0016, and 0033 teaches the ordinal matching of data with data that is in a natural order (phases of flight are in a natural order). It would have been obvious to one of ordinary skill in the art to combine Anderson and Griffin with Bloedorn to organize and match the data with known association in a logical and orderly manner so as to efficiently and accurately arrange the 2 data sets.]*

The prior rejections of instant claims 2-6 and 8-9 are upheld in view of the new rejection of instant claim 1.

5. Claims 26, 29-36 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson and Griffin in further view of Bloedorn as applied to claim 1-6 above, and further in view of Fortin (US 2005/0137994).

Instant claim 26: (new) A geocoding method comprising:

obtaining a list of entity geocodes associated with a side of a street segment; *[As per rejection of the currently amended instant claim 1 obtaining a list of entity geocodes has been disclosed by Griffin in view of Anderson.]*

ordinally number the list of entity geocodes with respect to the position on the street segment; *[As per rejection of previously presented claim 1 in the original office action Anderson in view of Griffin have taught the identification of addressable entities on a map and the association of these obtained entities with address information was known to one of ordinary skill in the art. However, Anderson in view of Griffin does not teach the linear ordering of the information. The interpolation of geocoded information was known to one of ordinary skill in the art as is stated by applicant and as is evidenced by Fortin in figures 2a-2c and paragraphs 0056-0057. It was inherent for interpolation and association of the datasets that the lists of entities and addresses are kept in a linear order with respect to the street segment so that after interpolation the association of the addresses (entities) with the interpolated geocodes would be known. Furthermore, as was shown by Bloedorn in rejection of claims 1-6 the linearly ordering of sets of data for the purpose of matching said sets of data were known. Thus it would have been obvious to one of ordinary skill in the art to combine the teachings of Anderson and Griffin with the knowledge of one of ordinary skill in the art (as is evidenced by Bloedorn and Fortin) to use linearly arranged data sets in order to accurately associate the data sets.]*

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obtaining an ordered list of entity addresses associated with the side of the street segment; and
[*As per rejection of previously presented claim 1 in the original office action and the rejection above this limitation has been disclosed.*]

associating the entity geocodes with the entity addresses by an ordinal matching, thereby geocoding the entity addresses. [*As per rejection of the current claim 1 and the above discussions of the limitations of claim 26 Bloedorn teaches the ordering of data for proper ordinal matching of sets of data based on linear order. It would have been obvious to one of ordinary skill in the art to combine Anderson and Griffin (as previously established) with Bloedorn to organize and match the data with known association in a logical and orderly manner so as to efficiently and accurately arrange the 2 data sets.*]

In view of the rejection of instant claim 26 the instant claims 29-36, and 39 have been rejected (respectively) as per rejection of original claims 13, 17-23, and 8 (adding geocoded street address to a database), where the examiner is relying on the replacement of the rejection of the original claim 11 with the current rejection of claim 26, wherein Fortin and the knowledge of one of ordinary skill in the art have replaced the use of Ge in the prior art rejections.

Allowable Subject Matter

6. Claims 11, 13-14, and 16-25 are allowed.

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Instant claim 11 now contains the limitations of previous claim 15 that was cited as allowable subject matter in the previous office action, and thus all claims dependent from 11 are deemed allowable.

7. Claims 10, 27-28, and 37-38 are now objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Instant claims 10 and 27-28 differentiates from the prior art in that it performs an error correction step that identifies when there is not a one to one matching between the geocodes and addresses and then redefines this street segment to include multiple adjacent segments.

Instant claims 37-38 differentiates from the prior art in that it redefines the street segment by transferring address to an adjacent street segment or switching the addresses between left and right sides of the segment based on the entity geocodes or the geocodes and the entity addresses. This step is for error correction when data is determined to be incorrect and thus changes are made to locations along the street segment.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Singh (US 2005/0114354) – paragraph 0072 teaches interpolation of data.
- Esposito (US 6101496) - see column 1 lines 18-35 wherein the list of ordered addresses (street vectors) associated with each side of a street.

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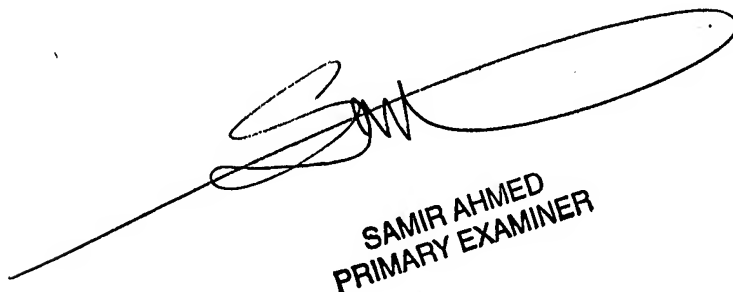
Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan Bloom whose telephone number is 571-272-9321. The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Samir Ahmed, can be reached on 571-272-7413. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nathan Bloom



SAMIR AHMED
PRIMARY EXAMINER